



AgSource
Soil & Forage Laboratory
A subsidiary of Cooperative Resources International

AGSOURCE SOIL & FORAGE LABORATORY
106 N. CECIL STREET
BONDUEL, WI 54107
PHONE (715) 758-2178 FAX (715) 758-2620

CENTRAL SANDS DAIRY
N15927 CTY G
NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. & Personal Privacy (PP) PRODUCE FARM
DATE PROCESSED: 04/11/2013
DATE SAMPLED: 04/04/2013
SAMPLE NUMBER: 22150
MATERIAL: Dairy
SAMPLE TYPE: A
STORAGE SYSTEM: LIQUID

	Estimated Available Nutrient Credits			
	Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
DRY MATTER, % 2.00				
MOISTURE, % 98.00				
Nitrogen (Injected)	19.92	7.97	9.96	10.96
Nitrogen (Surface Applied)	19.92	5.98	7.97	8.96
Phosphorus as P ₂ O ₅	3.16	1.89	2.21	2.37
Potassium as K ₂ O	15.04	12.03	13.54	14.29
Sulfur	1.06	0.64	0.74	0.80
Estimated Value of Available Nutrients		\$11.69	\$14.13	\$15.35

MINOR ELEMENTS *3

Calcium: 2.05%	Zinc: 352 ppm	NH ₄ -N: 0.230%
Magnesium: 1.52%	Manganese: 224 ppm	NO ₃ -N: 0.001%
Copper: 945 ppm	Sodium: 3.15%	
Iron: 1447 ppm		

COMMENTS

- *1 Applications of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and for 3 or more consecutive years by 15%. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 08/10/2012.
N (Urea) \$0.74/lb, P₂O₅ (Triple Superphosphate) \$0.71/lb, K₂O (Potash) \$0.48/lb, S (Elemental Sulfur) \$0.23/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis. If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.



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CENTRAL SANDS DAIRY
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NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) PRODUCE FARM
DATE PROCESSED: 04/11/2013
DATE SAMPLED: 04/04/2013
SAMPLE NUMBER: 22151
MATERIAL: Dairy
SAMPLE TYPE: B
STORAGE SYSTEM: LIQUID

	Estimated Available Nutrient Credits			
	Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
DRY MATTER, % 1.40				
MOISTURE, % 98.60				
Nitrogen (Injected)	15.77	6.31	7.89	8.67
Nitrogen (Surface Applied)	15.77	4.73	6.31	7.10
Phosphorus as P ₂ O ₅	1.65	0.99	1.15	1.24
Potassium as K ₂ O	12.33	9.86	11.09	11.71
Sulfur	0.78	0.47	0.54	0.58
Estimated Value of Available Nutrients		\$9.04	\$10.94	\$11.89

MINOR ELEMENTS *3

Calcium: 1.50%	Zinc: 329 ppm	NH ₄ -N: 0.180%
Magnesium: 1.57%	Manganese: 168 ppm	NO ₃ -N: 0.001%
Copper: 832 ppm	Sodium: 3.77%	
Iron: 1250 ppm		

COMMENTS

- *1 Applications of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and for 3 or more consecutive years by 15%. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 08/10/2012.
N (Urea) \$0.74/lb, P₂O₅ (Triple Superphosphate) \$0.71/lb, K₂O (Potash) \$0.48/lb, S (Elemental Sulfur) \$0.23/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.

MANURE NUTRIENT ANALYSIS REPORT



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CENTRAL SANDS DAIRY
N15927 CTY G
NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: CENTRAL SANDS
DATE PROCESSED: 04/11/2013
DATE SAMPLED: 04/04/2013
SAMPLE NUMBER: 22152
MATERIAL: Dairy
SAMPLE TYPE: A
STORAGE SYSTEM: SOLID

DRY MATTER, % 22.10

MOISTURE, % 77.90

Nitrogen (Injected)
Nitrogen (Surface Applied)
Phosphorus as P₂O₅
Potassium as K₂O
Sulfur
Estimated Value of
Available Nutrients

Estimated Available Nutrient Credits			
Total Nutrients lbs/ton	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs lbs/ton	If Applied 3 Consecutive Yrs lbs/ton
7.80	3.12	3.90	4.29
7.80	2.34	3.12	3.51
3.54	2.13	2.48	2.66
5.09	4.07	4.58	4.84
1.06	0.64	0.74	0.80
	\$5.34	\$6.44	\$6.99

MINOR ELEMENTS *3

Calcium:	1.29%	Zinc:	118 ppm
Magnesium:	0.51%	Manganese:	110 ppm
Copper:	225 ppm	Sodium:	0.42%
Iron:	510 ppm		

NH ₄ -N:	0.210%
NO ₃ -N:	0.001%

COMMENTS

- *1 Applications of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and for 3 or more consecutive years by 15%. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 08/10/2012.
N (Urea) \$0.74/lb, P₂O₅ (Triple Superphosphate) \$0.71/lb, K₂O (Potash) \$0.48/lb, S (Elemental Sulfur) \$0.23/lb.
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ACCT: 1303

ANALYSIS FOR: CENTRAL SANDS
DATE PROCESSED: 04/11/2013
DATE SAMPLED: 04/04/2013
SAMPLE NUMBER: 22153
MATERIAL: Dairy
SAMPLE TYPE: B
STORAGE SYSTEM: SOLID

DRY MATTER, % 30.40

MOISTURE, % 69.60

Nitrogen (Injected)
Nitrogen (Surface Applied)
Phosphorus as P₂O₅
Potassium as K₂O
Sulfur
Estimated Value of
Available Nutrients

Estimated Available Nutrient Credits			
Total Nutrients lbs/ton	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs lbs/ton	If Applied 3 Consecutive Yrs lbs/ton
8.40	3.36	4.20	4.62
8.40	2.52	3.36	3.78
3.90	2.34	2.73	2.92
4.38	3.50	3.94	4.16
1.16	0.69	0.81	0.87
	\$5.37	\$6.50	\$7.07

MINOR ELEMENTS *3

Calcium:	0.84%	Zinc:	88 ppm
Magnesium:	0.40%	Manganese:	97 ppm
Copper:	176 ppm	Sodium:	0.27%
Iron:	493 ppm		

NH ₄ -N:	0.200%
NO ₃ -N:	0.001%

COMMENTS

- *1 Applications of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and for 3 or more consecutive years by 15%. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 08/10/2012.
N (Urea) \$0.74/lb, P₂O₅ (Triple Superphosphate) \$0.71/lb, K₂O (Potash) \$0.48/lb, S (Elemental Sulfur) \$0.23/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.

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CENTRAL SANDS DAIRY
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ACCT: 1303

ANALYSIS FOR: Ex. & Personal Privacy (PP) FARMS
DATE PROCESSED: 05/09/2013
DATE SAMPLED: 05/03/2013
SAMPLE NUMBER: 22314
MATERIAL: Dairy
SAMPLE TYPE: A
STORAGE SYSTEM: LIQUID

Estimated Available Nutrient Credits					
Nutrient	Unit	Total Nutrients	In 1st Year	If Applied 2	If Applied 3
		lbs/1000 gal	of Application	Consecutive Yrs	Consecutive Yrs
			lbs/1000 gal	lbs/1000 gal	lbs/1000 gal
Nitrogen (Injected)		25.73	10.29	12.87	14.15
Nitrogen (Surface Applied)		25.73	7.72	10.29	11.58
Phosphorus as P ₂ O ₅		5.79	3.47	4.05	4.34
Potassium as K ₂ O		17.27	13.82	15.55	16.41
Sulfur		1.56	0.94	1.10	1.17
Estimated Value of Available Nutrients			\$15.03	\$18.21	\$19.80

MINOR ELEMENTS *3

Calcium:	2.89%	Zinc:	444 ppm	NH ₄ -N:	0.200%
Magnesium:	1.72%	Manganese:	341 ppm	NO ₃ -N:	0.001%
Copper:	1047 ppm	Sodium:	2.45%		
Iron:	1693 ppm				

COMMENTS

- *1 Applications of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and for 3 or more consecutive years by 15%. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 08/10/2012.
N (Urea) \$0.74/lb, P₂O₅ (Triple Superphosphate) \$0.71/lb, K₂O (Potash) \$0.48/lb, S (Elemental Sulfur) \$0.23/lb.
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MANURE NUTRIENT ANALYSIS REPORT



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ACCT: 1303

ANALYSIS FOR: Ex. 5 Personal Privacy (PP) FARM
DATE PROCESSED: 05/09/2013
DATE SAMPLED: 05/03/2013
SAMPLE NUMBER: 22315
MATERIAL: Dairy
SAMPLE TYPE: B
STORAGE SYSTEM: LIQUID

	Estimated Available Nutrient Credits			
	Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
DRY MATTER, % 2.70				
MOISTURE, % 97.30				
Nitrogen (Injected)	22.41	8.96	11.21	12.33
Nitrogen (Surface Applied)	22.41	6.72	8.96	10.08
Phosphorus as P ₂ O ₅	5.39	3.23	3.77	4.04
Potassium as K ₂ O	7.72	6.17	6.95	7.33
Sulfur	1.50	0.90	1.05	1.13
Estimated Value of Available Nutrients		\$10.44	\$12.89	\$14.11

MINOR ELEMENTS *3

Calcium: 2.87%	Zinc: 457 ppm	NH ₄ -N: 0.200%
Magnesium: 1.76%	Manganese: 338 ppm	NO ₃ -N: 0.001%
Copper: 1108 ppm	Sodium: 2.63%	
Iron: 1727 ppm		

COMMENTS

- *1 Applications of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and for 3 or more consecutive years by 15%. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 08/10/2012.
N (Urea) \$0.74/lb, P₂O₅ (Triple Superphosphate) \$0.71/lb, K₂O (Potash) \$0.48/lb, S (Elemental Sulfur) \$0.23/lb.
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ACCT: 1303

ANALYSIS FOR: CENTRAL SANDS DAIRY

DATE PROCESSED: 05/29/2013

DATE SAMPLED: 05/21/13

SAMPLE NUMBER: 22591

MATERIAL: Dairy

SAMPLE TYPE: A

STORAGE SYSTEM: LIQUID

DRY MATTER, % 3.72

MOISTURE, % 96.28

Nitrogen:
 (> 72h or Not Inc)

Nitrogen:
 (Inc in 1 to 72h)

Nitrogen:
 (Inc within 1h or Inj)

Phosphorus as P₂O₅Potassium as K₂O

Sulfur

Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
23.24	6.97	2.32	1.16
23.24	9.30	2.32	1.16
23.24	11.62	2.32	1.16
8.27	6.62	0.00	0.00
14.86	11.89	0.00	0.00
1.79	0.98	0.18	0.09
	\$19.23	\$1.76	\$0.88

MINOR ELEMENTS *3

Calcium: 3.24%	Zinc: 441 ppm
Magnesium: 1.57%	Manganese: 395 ppm
Copper: 989 ppm	Sodium: 1.83%
Iron: 1760 ppm	

NH ₄ -N: 0.260%
NO ₃ -N: 0.00080%

COMMENTS:

- *1 Applications of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and for 3 or more consecutive years by 15%. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
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 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: CENTRAL SANDS DAIRY

DATE PROCESSED: 05/29/2013

DATE SAMPLED: 05/21/13

SAMPLE NUMBER: 22592

MATERIAL: Dairy

SAMPLE TYPE: B

STORAGE SYSTEM: LIQUID

DRY MATTER, % 2.89

MOISTURE, % 97.11

Nitrogen:
 (> 72h or Not Inc)

Nitrogen:
 (Inc in 1 to 72h)

Nitrogen:
 (Inc within 1h or Inj)

Phosphorus as P₂O₅Potassium as K₂O

Sulfur

Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
22.41	6.72	2.24	1.12
22.41	8.96	2.24	1.12
22.41	11.21	2.24	1.12
6.04	4.83	0.00	0.00
15.17	12.14	0.00	0.00
1.46	0.80	0.15	0.07
	\$17.73	\$1.69	\$0.85

MINOR ELEMENTS *3

Calcium: 3.02%	Zinc: 434 ppm
Magnesium: 1.65%	Manganese: 369 ppm
Copper: 1111 ppm	Sodium: 2.34%
Iron: 1766 ppm	

NH ₄ -N: 0.260%
NO ₃ -N: 0.00079%

COMMENTS:

- *1 Applications of manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and for 3 or more consecutive years by 15%. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 08/10/2012.
 N (Urea) \$0.74/lb, P₂O₅ (Triple Superphosphate) \$0.71/lb, K₂O (Potash) \$0.48/lb,
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CENTRAL SANDS DAIRY
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 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Farms

DATE PROCESSED: 06/27/2013

DATE SAMPLED: 06/24/13

SAMPLE NUMBER: 22800

MATERIAL: Dairy

SAMPLE TYPE: B

STORAGE SYSTEM: LIQUID

DRY MATTER, % 1.74

MOISTURE, % 98.26

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
14.11	4.23	1.41	0.71
14.11	5.64	1.41	0.71
14.11	7.06	1.41	0.71
2.58	2.06	0.00	0.00
13.19	10.55	0.00	0.00
0.95	0.52	0.10	0.05
	\$9.97	\$0.83	\$0.41

MINOR ELEMENTS *3

Calcium: 2.45%	Zinc: 393 ppm
Magnesium: 1.76%	Manganese: 289 ppm
Copper: 1107 ppm	Sodium: 3.31%
Iron: 1427 ppm	

NH4-N: 0.160%
NO3-N: 0.00200%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
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- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1


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ACCT: 1303

ANALYSIS FOR: Ex. 5 Personal Privacy (PP) Farms

DATE PROCESSED: 06/27/2013

DATE SAMPLED: 06/24/2013

SAMPLE NUMBER: 22801

MATERIAL: Dairy

SAMPLE TYPE: A

STORAGE SYSTEM: LIQUID

DRY MATTER, % 1.99

MOISTURE, % 98.01

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
15.77	4.73	1.58	0.79
15.77	6.31	1.58	0.79
15.77	7.89	1.58	0.79
3.22	2.57	0.00	0.00
14.01	11.21	0.00	0.00
1.09	0.60	0.11	0.05
	\$11.06	\$0.93	\$0.46

MINOR ELEMENTS *3

Calcium: 2.58%	Zinc: 410 ppm
Magnesium: 1.70%	Manganese: 305 ppm
Copper: 1146 ppm	Sodium: 2.99%
Iron: 1449 ppm	

NH ₄ -N: 0.180%
NO ₃ -N: 0.00200%

COMMENTS:

- *1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
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ACCT: 1303

ANALYSIS FOR: Ex: 8 Personal Privacy (PP) Farms

DATE PROCESSED: 06/27/2013

DATE SAMPLED: 06/24/2013

SAMPLE NUMBER: 22802

MATERIAL: Dairy

SAMPLE TYPE: B

STORAGE SYSTEM: SOLID

DRY MATTER, % 25.98**MOISTURE, % 74.02**
 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/ton	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs lbs/ton	If Applied 3 Consecutive Yrs lbs/ton
7.00	1.75	0.70	0.35
7.00	2.10	0.70	0.35
7.00	2.45	0.70	0.35
3.57	2.86	0.00	0.00
4.30	3.44	0.00	0.00
1.09	0.60	0.11	0.05
	\$4.80	\$0.43	\$0.21

MINOR ELEMENTS *3

Calcium: 0.96%	Zinc: 109 ppm
Magnesium: 0.43%	Manganese: 96 ppm
Copper: 229 ppm	Sodium: 0.30%
Iron: 550 ppm	

NH ₄ -N: 0.200%
NO ₃ -N: 0.00100%

COMMENTS:

- *1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
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BONDUEL, WI 54107

PHONE (715) 758-2178 FAX (715) 758-2620

CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Farms

DATE PROCESSED: 06/27/2013

DATE SAMPLED: 06/24/2013

SAMPLE NUMBER: 22803

MATERIAL: Dairy

STORAGE SYSTEM: SOLID

SAMPLE ID: A

DRY MATTER, % 56.74

MOISTURE, % 43.26

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/ton	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs lbs/ton	If Applied 3 Consecutive Yrs lbs/ton
4.40	1.10	0.44	0.22
4.40	1.32	0.44	0.22
4.40	1.54	0.44	0.22
2.60	2.08	0.00	0.00
3.27	2.61	0.00	0.00
0.91	0.50	0.09	0.05
	\$2.98	\$0.22	\$0.11

MINOR ELEMENTS *3

Calcium: 0.60%	Zinc: 45 ppm
Magnesium: 0.17%	Manganese: 40 ppm
Copper: 64 ppm	Sodium: 0.11%
Iron: 589 ppm	

NH ₄ -N: 0.080%
NO ₃ -N: 0.00100%

COMMENTS:

- *1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 10/28/2013.
 N (Urea) \$0.44/lb, P₂O₅ (Triple Superphosphate) \$0.55/lb, K₂O (Potash) \$0.39/lb,
 S (Elemental Sulfur) \$0.27/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Farms

DATE PROCESSED: 06/07/2013

DATE SAMPLED: 06/05/2013

SAMPLE NUMBER: 22804

MATERIAL: Dairy

SAMPLE TYPE: B

STORAGE SYSTEM: LIQUID

DRY MATTER, % 1.95

MOISTURE, % 98.05

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
15.77	4.73	1.58	0.79
15.77	6.31	1.58	0.79
15.77	7.89	1.58	0.79
2.97	2.37	0.00	0.00
12.62	10.10	0.00	0.00
0.95	0.53	0.10	0.05
	\$10.44	\$0.92	\$0.46

MINOR ELEMENTS *3

Calcium: 3.12%	Zinc: 340 ppm
Magnesium: 1.97%	Manganese: 308 ppm
Copper: 954 ppm	Sodium: 2.69%
Iron: 1614 ppm	

NH ₄ -N: 0.140%
NO ₃ -N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Farms

DATE PROCESSED: 06/05/2013

DATE SAMPLED: 06/05/2013

SAMPLE NUMBER: 22805

MATERIAL: Dairy

SAMPLE TYPE: A

STORAGE SYSTEM: LIQUID

DRY MATTER, % 2.22

MOISTURE, % 97.78

Nitrogen:
 (> 72h or Not Inc)

Nitrogen:
 (Inc in 1 to 72h)

Nitrogen:
 (Inc within 1h or Inj)

Phosphorus as P₂O₅Potassium as K₂O

Sulfur

Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
16.60	4.98	1.66	0.83
16.60	6.64	1.66	0.83
16.60	8.30	1.66	0.83
3.97	3.17	0.00	0.00
14.02	11.21	0.00	0.00
1.12	0.62	0.11	0.06
	\$11.68	\$0.97	\$0.49

MINOR ELEMENTS *3

Calcium: 3.02%	Zinc: 386 ppm
Magnesium: 1.83%	Manganese: 339 ppm
Copper: 1079 ppm	Sodium: 2.69%
Iron: 1586 ppm	

NH ₄ -N: 0.160%
NO ₃ -N: 0.00100%

COMMENTS:

- *1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 5 Personal Privacy (PP) Produce Farm

DATE PROCESSED: 07/23/2013

DATE SAMPLED: 07/11/2013

SAMPLE NUMBER: 22917

MATERIAL: Dairy

SAMPLE TYPE: A

STORAGE SYSTEM: LIQUID

DRY MATTER, % 1.70

MOISTURE, % 98.30

Nitrogen:
 (> 72h or Not Inc)

Nitrogen:
 (Inc in 1 to 72h)

Nitrogen:
 (Inc within 1h or Inj)

Phosphorus as P₂O₅Potassium as K₂O

Sulfur

Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
14.11	4.23	1.41	0.71
14.11	5.64	1.41	0.71
14.11	7.06	1.41	0.71
2.71	2.17	0.00	0.00
14.16	11.32	0.00	0.00
0.99	0.54	0.10	0.05
	\$10.37	\$0.83	\$0.41

MINOR ELEMENTS *3

Calcium: 3.47%	Zinc: 395 ppm
Magnesium: 2.23%	Manganese: 360 ppm
Copper: 1038 ppm	Sodium: 3.80%
Iron: 1330 ppm	

NH4-N: 0.130%
NO3-N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1


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ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Produce Farms

DATE PROCESSED: 07/23/2013

DATE SAMPLED: 07/11/2013

SAMPLE NUMBER: 22918

MATERIAL: Dairy

SAMPLE TYPE: B

STORAGE SYSTEM: LIQUID

DRY MATTER, % 1.76

MOISTURE, % 98.24

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
15.77	4.73	1.58	0.79
15.77	6.31	1.58	0.79
15.77	7.89	1.58	0.79
2.91	2.33	0.00	0.00
16.23	12.99	0.00	0.00
1.17	0.64	0.12	0.06
	\$11.68	\$0.93	\$0.46

MINOR ELEMENTS *3

Calcium: 3.48%	Zinc: 442 ppm
Magnesium: 2.34%	Manganese: 348 ppm
Copper: 1144 ppm	Sodium: 4.27%
Iron: 1549 ppm	

NH ₄ -N: 0.120%
NO ₃ -N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1


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CENTRAL SANDS DAIRY
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ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) FARM

DATE PROCESSED: 08/01/2013

DATE SAMPLED: 07/24/13

SAMPLE NUMBER: 23002

MATERIAL: Dairy

SAMPLE TYPE: 4

STORAGE SYSTEM: SOLID

DRY MATTER, % 26.64**MOISTURE, % 73.36**
 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/ton	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs lbs/ton	If Applied 3 Consecutive Yrs lbs/ton
6.00	1.50	0.60	0.30
6.00	1.80	0.60	0.30
6.00	2.10	0.60	0.30
3.17	2.54	0.00	0.00
5.05	4.04	0.00	0.00
1.23	0.67	0.12	0.06
	\$4.68	\$0.37	\$0.19

MINOR ELEMENTS *3

Calcium: 1.11%	Zinc: 108 ppm
Magnesium: 0.40%	Manganese: 89 ppm
Copper: 196 ppm	Sodium: 0.35%
Iron: 634 ppm	

NH ₄ -N: 0.060%
NO ₃ -N: 0.00100%

COMMENTS:

- *1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

MANURE NUTRIENT ANALYSIS REPORT


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 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) PASTURE FARM

DATE PROCESSED: 08/01/2013

DATE SAMPLED: 07/24/13

SAMPLE NUMBER: 23003

MATERIAL: Dairy

SAMPLE TYPE: B

STORAGE SYSTEM: SEMI-SOLID

DRY MATTER, % 14.58

MOISTURE, % 85.42

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/ton	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs lbs/ton	If Applied 3 Consecutive Yrs lbs/ton
5.80	1.45	0.58	0.29
5.80	1.74	0.58	0.29
5.80	2.03	0.58	0.29
2.40	1.92	0.00	0.00
3.53	2.83	0.00	0.00
1.05	0.58	0.10	0.05
	\$3.71	\$0.36	\$0.18

MINOR ELEMENTS *3

Calcium: 1.28%	Zinc: 163 ppm
Magnesium: 0.52%	Manganese: 118 ppm
Copper: 303 ppm	Sodium: 0.44%
Iron: 639 ppm	

NH ₄ -N: 0.020%
NO ₃ -N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Farm

DATE PROCESSED: 08/02/2013

DATE SAMPLED: 07/24/2013

SAMPLE NUMBER: 23008

MATERIAL: Dairy

SAMPLE TYPE: A

STORAGE SYSTEM: LIQUID

DRY MATTER, % 1.79

MOISTURE, % 98.21

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
13.28	3.98	1.33	0.66
13.28	5.31	1.33	0.66
13.28	6.64	1.33	0.66
3.33	2.67	0.00	0.00
14.80	11.84	0.00	0.00
1.19	0.65	0.12	0.06
	\$10.69	\$0.79	\$0.39

MINOR ELEMENTS *3

Calcium: 3.55%	Zinc: 468 ppm
Magnesium: 2.06%	Manganese: 408 ppm
Copper: 1206 ppm	Sodium: 3.48%
Iron: 1604 ppm	

NH ₄ -N: 0.150%
NO ₃ -N: 0.00200%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Farm

DATE PROCESSED: 08/02/2013

DATE SAMPLED: 07/24/2013

SAMPLE NUMBER: 23009

MATERIAL: Dairy

SAMPLE TYPE: B

STORAGE SYSTEM: LIQUID

DRY MATTER, % 1.87

MOISTURE, % 98.13

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
13.28	3.98	1.33	0.66
13.28	5.31	1.33	0.66
13.28	6.64	1.33	0.66
3.80	3.04	0.00	0.00
15.91	12.72	0.00	0.00
1.30	0.72	0.13	0.07
	\$11.32	\$0.79	\$0.39

MINOR ELEMENTS *3

Calcium: 3.79%	Zinc: 448 ppm
Magnesium: 2.18%	Manganese: 442 ppm
Copper: 1293 ppm	Sodium: 3.63%
Iron: 1715 ppm	

NH ₄ -N: 0.150%
NO ₃ -N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

NUTRIENT ANALYSIS REPORT


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Produce Farm

DATE PROCESSED: 08/08/2013

DATE SAMPLED: 08/05/2013

SAMPLE NUMBER: 23018

MATERIAL: Dairy

SAMPLE TYPE: A

STORAGE SYSTEM: SLURRY

DRY MATTER, % 8.87

MOISTURE, % 91.13

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
25.73	7.72	2.57	1.29
25.73	10.29	2.57	1.29
25.73	12.87	2.57	1.29
19.89	15.92	0.00	0.00
17.93	14.35	0.00	0.00
3.68	2.02	0.37	0.18
	\$23.88	\$1.56	\$0.78

MINOR ELEMENTS *3

Calcium: 3.66%	Zinc: 510 ppm
Magnesium: 1.40%	Manganese: 405 ppm
Copper: 957 ppm	Sodium: 0.88%
Iron: 1874 ppm	

NH ₄ -N: 0.120%
NO ₃ -N: 0.00200%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

MANURE NUTRIENT ANALYSIS REPORT


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Produce Farm

DATE PROCESSED: 08/08/2013

DATE SAMPLED: 08/05/2013

SAMPLE NUMBER: 23019

MATERIAL: Dairy

SAMPLE TYPE: B

STORAGE SYSTEM: LIQUID

DRY MATTER, % 1.94

MOISTURE, % 98.06

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
14.11	4.23	1.41	0.71
14.11	5.64	1.41	0.71
14.11	7.06	1.41	0.71
3.43	2.74	0.00	0.00
13.51	10.81	0.00	0.00
1.18	0.65	0.12	0.06
	\$10.53	\$0.83	\$0.42

MINOR ELEMENTS *3

Calcium: 3.59%	Zinc: 470 ppm
Magnesium: 2.02%	Manganese: 413 ppm
Copper: 1090 ppm	Sodium: 3.15%
Iron: 1599 ppm	

NH4-N: 0.100%
NO3-N: 0.00300%

COMMENTS:

- *1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

ED_004625A_00007498-00022

MANURE NUTRIENT ANALYSIS REPORT


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AGSOURCE LABORATORIES

106 N. CECIL STREET

BONDUEL, WI 54107

PHONE (715) 758-2178 FAX (715) 758-2620

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Produce Farm

DATE PROCESSED: 08/28/2013

DATE SAMPLED: / /

SAMPLE NUMBER: 23188

MATERIAL: Dairy

STORAGE SYSTEM: LIQUID

SAMPLE ID: B

ACCT: 1303

CENTRAL SANDS DAIRY

N15927 CTY G

NEKOOSA, WI 54457

DRY MATTER, % 2.43

MOISTURE, % 97.57

Nitrogen:
(> 72h or Not Inc)Nitrogen:
(Inc in 1 to 72h)Nitrogen:
(Inc within 1h or Inj)Phosphorus as P₂O₅Potassium as K₂O

Sulfur

Estimated Value of
Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
15.77	4.73	1.58	0.79
15.77	6.31	1.58	0.79
15.77	7.89	1.58	0.79
4.80	3.84	0.00	0.00
16.92	13.53	0.00	0.00
1.57	0.87	0.16	0.08
	\$12.91	\$0.94	\$0.47

MINOR ELEMENTS *3

Calcium: 3.67%	Zinc: 464 ppm
Magnesium: 1.97%	Manganese: 439 ppm
Copper: 1232 ppm	Sodium: 3.13%
Iron: 1577 ppm	

NH ₄ -N: 0.110%
NO ₃ -N: 0.00200%

COMMENTS:

*1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.

*2 Value based on commercial fertilizer costs as of 06/15/2013.

N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb, S (Elemental Sulfur) \$0.25/lb.

*3 If minor elements are requested, they are reported on a 'dry matter' basis.

If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.

**References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

ED_004625A_00007498-00023

MANURE NUTRIENT ANALYSIS REPORT


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BONDUEL, WI 54107

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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Produce Farm

DATE PROCESSED: 06/20/2013

DATE SAMPLED: / /

SAMPLE NUMBER: 23189

MATERIAL: Dairy

STORAGE SYSTEM: LIQUID

SAMPLE ID: D

DRY MATTER, % 2.62

MOISTURE, % 97.38

Nitrogen:
 (> 72h or Not Inc)

Nitrogen:
 (Inc in 1 to 72h)

Nitrogen:
 (Inc within 1h or Inj)

Phosphorus as P₂O₅Potassium as K₂O

Sulfur

Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
17.43	5.23	1.74	0.87
17.43	6.97	1.74	0.87
17.43	8.72	1.74	0.87
5.23	4.18	0.00	0.00
18.48	14.78	0.00	0.00
1.74	0.96	0.17	0.09
	\$14.16	\$1.04	\$0.52

MINOR ELEMENTS *3

Calcium: 3.75%	Zinc: 453 ppm
Magnesium: 2.04%	Manganese: 459 ppm
Copper: 1276 ppm	Sodium: 3.28%
Iron: 1416 ppm	

NH4-N: 0.100%
NO3-N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Central Sands Dairy

DATE PROCESSED: 08/28/2013

DATE SAMPLED: 08/22/2013

SAMPLE NUMBER: 23205

MATERIAL: Dairy

STORAGE SYSTEM: SLURRY

SAMPLE ID: A

DRY MATTER, % 7.51

MOISTURE, % 92.49

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
29.88	8.96	2.99	1.49
29.88	11.95	2.99	1.49
29.88	14.94	2.99	1.49
22.98	18.39	0.00	0.00
18.63	14.90	0.00	0.00
3.80	2.09	0.38	0.19
	\$26.84	\$1.80	\$0.90

MINOR ELEMENTS *3

Calcium: 4.36%	Zinc: 757 ppm
Magnesium: 1.78%	Manganese: 595 ppm
Copper: 930 ppm	Sodium: 1.07%
Iron: 2411 ppm	

NH ₄ -N: 0.200%
NO ₃ -N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Central Sands Dairy
 DATE PROCESSED: 08/28/2013
 DATE SAMPLED: 08/22/2013
 SAMPLE NUMBER: 23206
 MATERIAL: Dairy
 STORAGE SYSTEM: SLURRY
 SAMPLE ID: B

DRY MATTER, % 9.13
MOISTURE, % 90.87

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
32.37	9.71	3.24	1.62
32.37	12.95	3.24	1.62
32.37	16.19	3.24	1.62
26.72	21.38	0.00	0.00
19.01	15.20	0.00	0.00
4.24	2.33	0.42	0.21
	\$29.60	\$1.95	\$0.98

MINOR ELEMENTS *3

Calcium: 4.15%	Zinc: 761 ppm
Magnesium: 1.66%	Manganese: 523 ppm
Copper: 859 ppm	Sodium: 0.92%
Iron: 2268 ppm	

NH ₄ -N: 0.200%
NO ₃ -N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Farm

DATE PROCESSED: 09/12/2013

DATE SAMPLED: 09/04/2013

SAMPLE NUMBER: 23280

MATERIAL: Dairy

STORAGE SYSTEM: SLURRY

SAMPLE ID: A

DRY MATTER, % 5.07

MOISTURE, % 94.93

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
20.75	6.23	2.08	1.04
20.75	8.30	2.08	1.04
20.75	10.38	2.08	1.04
15.03	12.03	0.00	0.00
17.67	14.14	0.00	0.00
2.52	1.39	0.25	0.13
	\$19.80	\$1.25	\$0.62

MINOR ELEMENTS *3

Calcium: 4.36%	Zinc: 690 ppm
Magnesium: 1.93%	Manganese: 541 ppm
Copper: 1077 ppm	Sodium: 1.60%
Iron: 2088 ppm	

NH ₄ -N: 0.160%
NO ₃ -N: 0.00100%

COMMENTS:

- *1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Farm

DATE PROCESSED: 09/12/2013

DATE SAMPLED: 09/04/2013

SAMPLE NUMBER: 23281

MATERIAL: Dairy

STORAGE SYSTEM: LIQUID

SAMPLE ID: B

DRY MATTER, % 3.25

MOISTURE, % 96.75

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
17.43	5.23	1.74	0.87
17.43	6.97	1.74	0.87
17.43	8.72	1.74	0.87
8.40	6.72	0.00	0.00
18.06	14.45	0.00	0.00
2.00	1.10	0.20	0.10
	\$15.62	\$1.04	\$0.52

MINOR ELEMENTS *3

Calcium: 4.57%	Zinc: 749 ppm
Magnesium: 2.07%	Manganese: 554 ppm
Copper: 1429 ppm	Sodium: 2.63%
Iron: 2074 ppm	

NH ₄ -N: 0.020%
NO ₃ -N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

MANURE NUTRIENT ANALYSIS REPORT


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: WPF
 DATE PROCESSED: 09/30/2013
 DATE SAMPLED: 09/18/2013
 SAMPLE NUMBER: 23417
 MATERIAL: Dairy
 STORAGE SYSTEM: LIQUID
 SAMPLE ID: A

DRY MATTER, % 2.84
MOISTURE, % 97.16

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
18.26	5.48	1.83	0.91
18.26	7.30	1.83	0.91
18.26	9.13	1.83	0.91
7.29	5.83	0.00	0.00
16.77	13.42	0.00	0.00
1.77	0.97	0.18	0.09
	\$14.83	\$1.09	\$0.54

MINOR ELEMENTS *3

Calcium: 4.64%	Zinc: 580 ppm	NH ₄ -N: 0.140%
Magnesium: 2.12%	Manganese: 529 ppm	NO ₃ -N: 0.00200%
Copper: 1427 ppm	Sodium: 2.69%	
Iron: 1544 ppm		

COMMENTS:

- *1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

MANURE NUTRIENT ANALYSIS REPORT


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: WPF
 DATE PROCESSED: 09/30/2013
 DATE SAMPLED: 09/18/2013
 SAMPLE NUMBER: 23418
 MATERIAL: Dairy
 STORAGE SYSTEM: LIQUID
 SAMPLE ID: B

DRY MATTER, % 2.34
MOISTURE, % 97.66

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)

 Phosphorus as P₂O₅

 Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
15.77	4.73	1.58	0.79
15.77	6.31	1.58	0.79
15.77	7.89	1.58	0.79
5.38	4.31	0.00	0.00
15.94	12.75	0.00	0.00
1.48	0.81	0.15	0.07
	\$12.85	\$0.94	\$0.47

MINOR ELEMENTS *3

Calcium: 4.36%	Zinc: 619 ppm
Magnesium: 32.13%	Manganese: 511 ppm
Copper: 1451 ppm	Sodium: 3.08%
Iron: 1753 ppm	

NH ₄ -N: 0.130%
NO ₃ -N: 0.00100%

COMMENTS:

- *1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 06/15/2013.
 N (Urea) \$0.57/lb, P₂O₅ (Triple Superphosphate) \$0.62/lb, K₂O (Potash) \$0.43/lb,
 S (Elemental Sulfur) \$0.25/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

NUTRIENT ANALYSIS REPORT


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Produce Farm

DATE PROCESSED: 10/28/2013

DATE SAMPLED: 10/08/2013

SAMPLE NUMBER: 23643

MATERIAL: Dairy

STORAGE SYSTEM: LIQUID

SAMPLE ID: B

DRY MATTER, % 3.52

MOISTURE, % 96.48

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
20.75	6.23	2.08	1.04
20.75	8.30	2.08	1.04
20.75	10.38	2.08	1.04
8.10	6.48	0.00	0.00
16.27	13.01	0.00	0.00
2.05	1.12	0.20	0.10
	\$13.51	\$0.97	\$0.48

MINOR ELEMENTS *3

Calcium: 3.95%	Zinc: 539 ppm
Magnesium: 1.77%	Manganese: 451 ppm
Copper: 1064 ppm	Sodium: 2.11%
Iron: 1547 ppm	

NH ₄ -N: 0.150%
NO ₃ -N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 10/28/2013.
 N (Urea) \$0.44/lb, P₂O₅ (Triple Superphosphate) \$0.55/lb, K₂O (Potash) \$0.39/lb,
 S (Elemental Sulfur) \$0.27/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

NUTRIENT ANALYSIS REPORT


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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 8 Personal Privacy (PP) Produce Farm

DATE PROCESSED: 10/7/2013

DATE SAMPLED: 10/08/2013

SAMPLE NUMBER: 23644

MATERIAL: Dairy

STORAGE SYSTEM: LIQUID

SAMPLE ID: A

DRY MATTER, % 3.39

MOISTURE, % 96.61

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
21.58	6.47	2.16	1.08
21.58	8.63	2.16	1.08
21.58	10.79	2.16	1.08
6.77	5.41	0.00	0.00
17.12	13.69	0.00	0.00
1.94	1.07	0.19	0.10
	\$13.35	\$1.00	\$0.50

MINOR ELEMENTS *3

Calcium: 3.61%	Zinc: 484 ppm
Magnesium: 1.74%	Manganese: 387 ppm
Copper: 992 ppm	Sodium: 2.27%
Iron: 1295 ppm	

NH ₄ -N:	0.170%
NO ₃ -N:	0.00100%

COMMENTS:

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- *2 Value based on commercial fertilizer costs as of 10/28/2013.
 N (Urea) \$0.44/lb, P₂O₅ (Triple Superphosphate) \$0.55/lb, K₂O (Potash) \$0.39/lb,
 S (Elemental Sulfur) \$0.27/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

MANURE NUTRIENT ANALYSIS REPORT


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AGSOURCE LABORATORIES

106 N. CECIL STREET

BONDUEL, WI 54107

PHONE (715) 758-2178 FAX (715) 758-2620

CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 5 Personal Privacy (PP) Produce Farm

DATE PROCESSED: 10/28/2013

DATE SAMPLED: 10/11/2013

SAMPLE NUMBER: 23645

MATERIAL: Dairy

STORAGE SYSTEM: SEMI-SOLID

SAMPLE ID: S

DRY MATTER, % 16.84

MOISTURE, % 83.16

Nitrogen:
 (> 72h or Not Inc)

Nitrogen:
 (Inc in 1 to 72h)

Nitrogen:
 (Inc within 1h or Inj)

Phosphorus as P₂O₅Potassium as K₂O

Sulfur

Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/ton	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs lbs/ton	If Applied 3 Consecutive Yrs lbs/ton
7.60	1.90	0.76	0.38
7.60	2.28	0.76	0.38
7.60	2.66	0.76	0.38
3.01	2.41	0.00	0.00
4.77	3.82	0.00	0.00
1.04	0.57	0.10	0.05
	\$4.14	\$0.36	\$0.18

MINOR ELEMENTS *3

Calcium: 1.02%	Zinc: 140 ppm
Magnesium: 0.54%	Manganese: 110 ppm
Copper: 328 ppm	Sodium: 0.52%
Iron: 413 ppm	

NH4-N: 0.170%
NO3-N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
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 N (Urea) \$0.44/lb, P₂O₅ (Triple Superphosphate) \$0.55/lb, K₂O (Potash) \$0.39/lb, S (Elemental Sulfur) \$0.27/lb.
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- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Produce Farm

DATE PROCESSED: 10/28/2013

DATE SAMPLED: 10/21/2013

SAMPLE NUMBER: 23646

MATERIAL: Dairy

STORAGE SYSTEM: SEMI-SOLID

SAMPLE ID: N

DRY MATTER, % 15.35

MOISTURE, % 84.65

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/ton	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs lbs/ton	If Applied 3 Consecutive Yrs lbs/ton
6.60	1.98	0.66	0.33
6.60	2.64	0.66	0.33
6.60	3.30	0.66	0.33
2.32	1.86	0.00	0.00
3.87	3.09	0.00	0.00
0.95	0.52	0.10	0.05
	\$3.82	\$0.32	\$0.16

MINOR ELEMENTS *3

Calcium: 0.96%	Zinc: 128 ppm
Magnesium: 0.50%	Manganese: 99 ppm
Copper: 270 ppm	Sodium: 0.45%
Iron: 356 ppm	

NH ₄ -N: 0.120%
NO ₃ -N: 0.00100%

COMMENTS:

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 N (Urea) \$0.44/lb, P₂O₅ (Triple Superphosphate) \$0.55/lb, K₂O (Potash) \$0.39/lb, S (Elemental Sulfur) \$0.27/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis. If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

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 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 6 Personal Privacy (PP) Produce Farm

DATE PROCESSED: 11/15/2013

DATE SAMPLED: 10/25/2013

SAMPLE NUMBER: 23917

MATERIAL: Dairy

STORAGE SYSTEM: LIQUID

SAMPLE ID: A

DRY MATTER, % 2.84

MOISTURE, % 97.16

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
23.24	6.97	2.32	1.16
23.24	9.30	2.32	1.16
23.24	11.62	2.32	1.16
6.53	5.23	0.00	0.00
22.32	17.85	0.00	0.00
2.07	1.14	0.21	0.10
	\$15.26	\$1.08	\$0.54

MINOR ELEMENTS *3

Calcium: 3.33%	Zinc: 567 ppm
Magnesium: 2.01%	Manganese: 395 ppm
Copper: 1009 ppm	Sodium: 3.45%
Iron: 1398 ppm	

NH ₄ -N: 0.200%
NO ₃ -N: 0.00800%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 10/28/2013.
 N (Urea) \$0.44/lb, P₂O₅ (Triple Superphosphate) \$0.55/lb, K₂O (Potash) \$0.39/lb,
 S (Elemental Sulfur) \$0.27/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
- **References: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin (A2809), Table 9.1

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 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: Ex. 8 Personal Privacy (PP) Produce Farms

DATE PROCESSED: 11/15/2013

DATE SAMPLED: 10/25/2013

SAMPLE NUMBER: 23918

MATERIAL: Dairy

STORAGE SYSTEM: LIQUID

SAMPLE ID: B

DRY MATTER, % 3.00

MOISTURE, % 97.00

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
20.75	6.23	2.08	1.04
20.75	8.30	2.08	1.04
20.75	10.38	2.08	1.04
6.73	5.38	0.00	0.00
21.57	17.26	0.00	0.00
1.97	1.08	0.20	0.10
	\$14.55	\$0.97	\$0.48

MINOR ELEMENTS *3

Calcium: 3.65%	Zinc: 454 ppm
Magnesium: 2.01%	Manganese: 415 ppm
Copper: 1095 ppm	Sodium: 3.32%
Iron: 1342 ppm	

NH ₄ -N: 0.210%
NO ₃ -N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
- *2 Value based on commercial fertilizer costs as of 10/28/2013.
 N (Urea) \$0.44/lb, P₂O₅ (Triple Superphosphate) \$0.55/lb, K₂O (Potash) \$0.39/lb,
 S (Elemental Sulfur) \$0.27/lb.
- *3 If minor elements are requested, they are reported on a 'dry matter' basis.
 If ammonia, nitrate or pH are requested, they are reported on an 'as is' basis.
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CENTRAL SANDS DAIRY
 N15927 CTY G
 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: WPF
 DATE PROCESSED: 11/21/2013
 DATE SAMPLED: 11/15/13
 SAMPLE NUMBER: 23989
 MATERIAL: Dairy
 STORAGE SYSTEM: LIQUID
 SAMPLE ID: A

DRY MATTER, % 1.46
MOISTURE, % 98.54

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
14.94	4.48	1.49	0.75
14.94	5.98	1.49	0.75
14.94	7.47	1.49	0.75
2.25	1.80	0.00	0.00
13.79	11.03	0.00	0.00
0.97	0.53	0.10	0.05
	\$8.72	\$0.68	\$0.34

MINOR ELEMENTS *3

Calcium: 2.64%	Zinc: 406 ppm
Magnesium: 2.02%	Manganese: 309 ppm
Copper: 1101 ppm	Sodium: 4.54%
Iron: 1137 ppm	

NH ₄ -N: 0.170%
NO ₃ -N: 0.00100%

COMMENTS:

- **1 Applications of manure on the same field for 2 consecutive years increases the availability of N and S by 10%, and for 3 or more consecutive years by 15%. There is zero availability on P and K for 2 or more consecutive years. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.
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 NEKOOSA, WI 54457

ACCT: 1303

ANALYSIS FOR: WPF
 DATE PROCESSED: 11/21/2013
 DATE SAMPLED: 11/15/13
 SAMPLE NUMBER: 23990
 MATERIAL: Dairy
 STORAGE SYSTEM: LIQUID
 SAMPLE ID: B

DRY MATTER, % 1.23
MOISTURE, % 98.77

 Nitrogen:
 (> 72h or Not Inc)

 Nitrogen:
 (Inc in 1 to 72h)

 Nitrogen:
 (Inc within 1h or Inj)
Phosphorus as P₂O₅Potassium as K₂O

Sulfur

 Estimated Value of
 Available Nutrients

Estimated Available Nutrient Credits

Total Nutrients lbs/1000 gal	In 1st Year of Application lbs/1000 gal	If Applied 2 Consecutive Yrs lbs/1000 gal	If Applied 3 Consecutive Yrs lbs/1000 gal
12.45	3.74	1.25	0.62
12.45	4.98	1.25	0.62
12.45	6.23	1.25	0.62
1.73	1.38	0.00	0.00
12.51	10.01	0.00	0.00
0.85	0.47	0.08	0.04
	\$7.53	\$0.57	\$0.29

MINOR ELEMENTS *3

Calcium: 2.53%	Zinc: 397 ppm	NH4-N: 0.140%
Magnesium: 2.08%	Manganese: 289 ppm	NO3-N: 0.00100%
Copper: 1080 ppm	Sodium: 4.81%	
Iron: 1124 ppm		

COMMENTS:

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